

FIG. 1

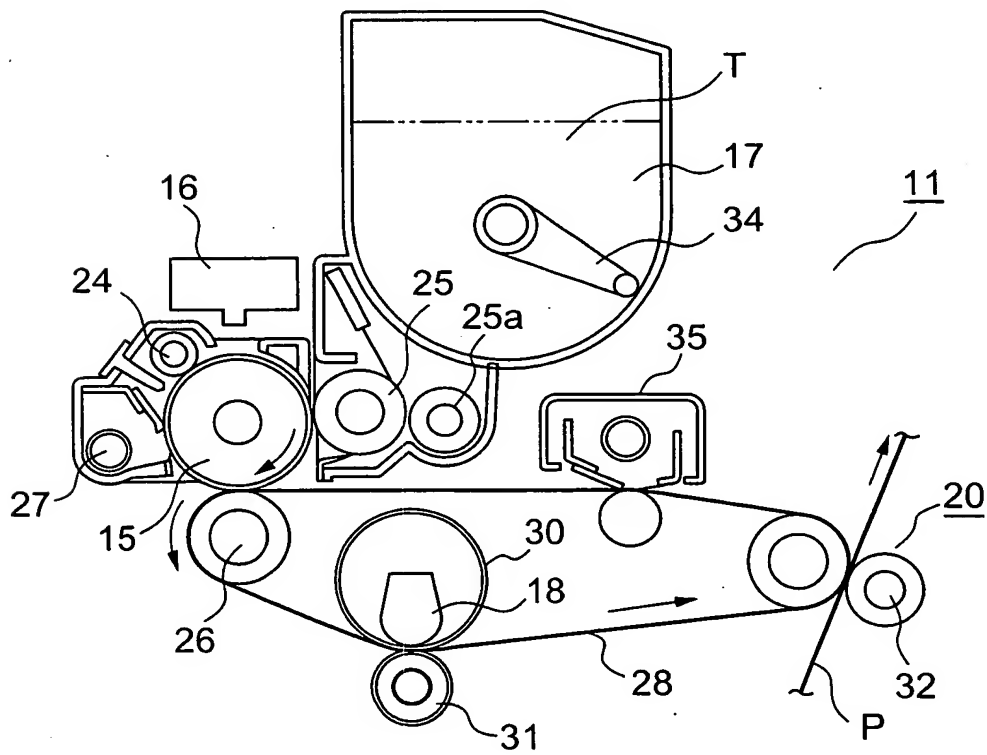


FIG. 2

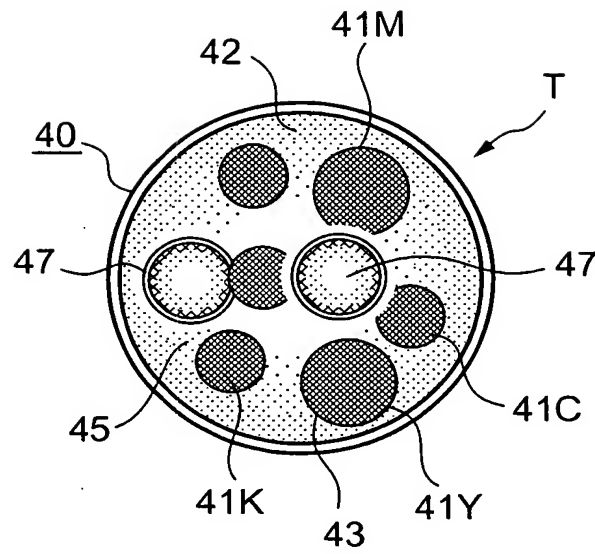


FIG. 3

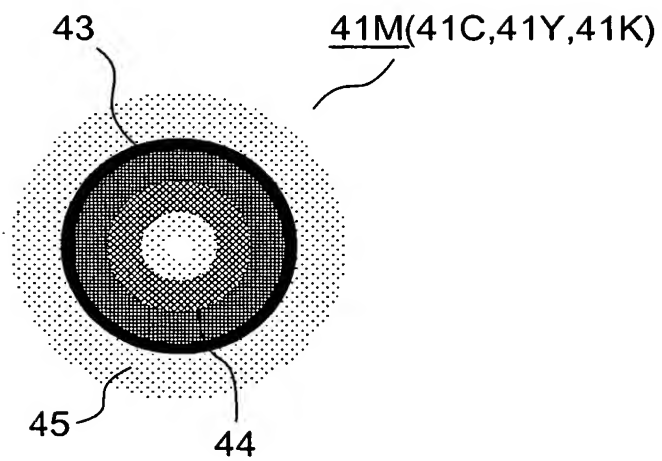


FIG. 4

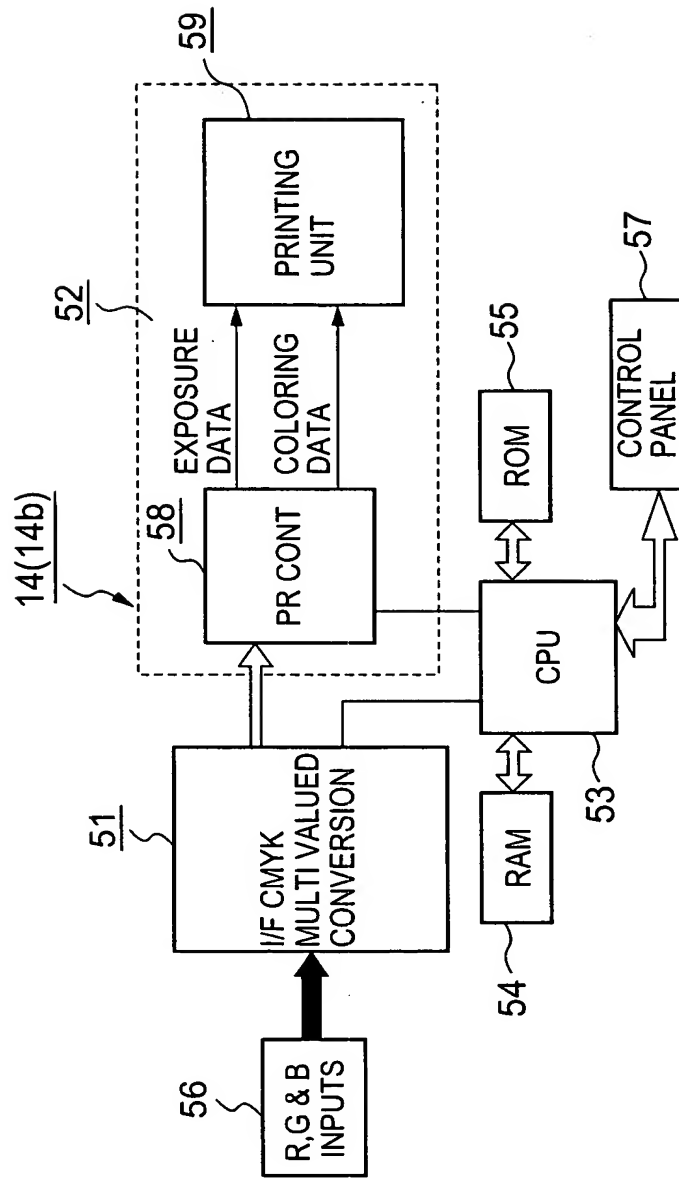


FIG. 5

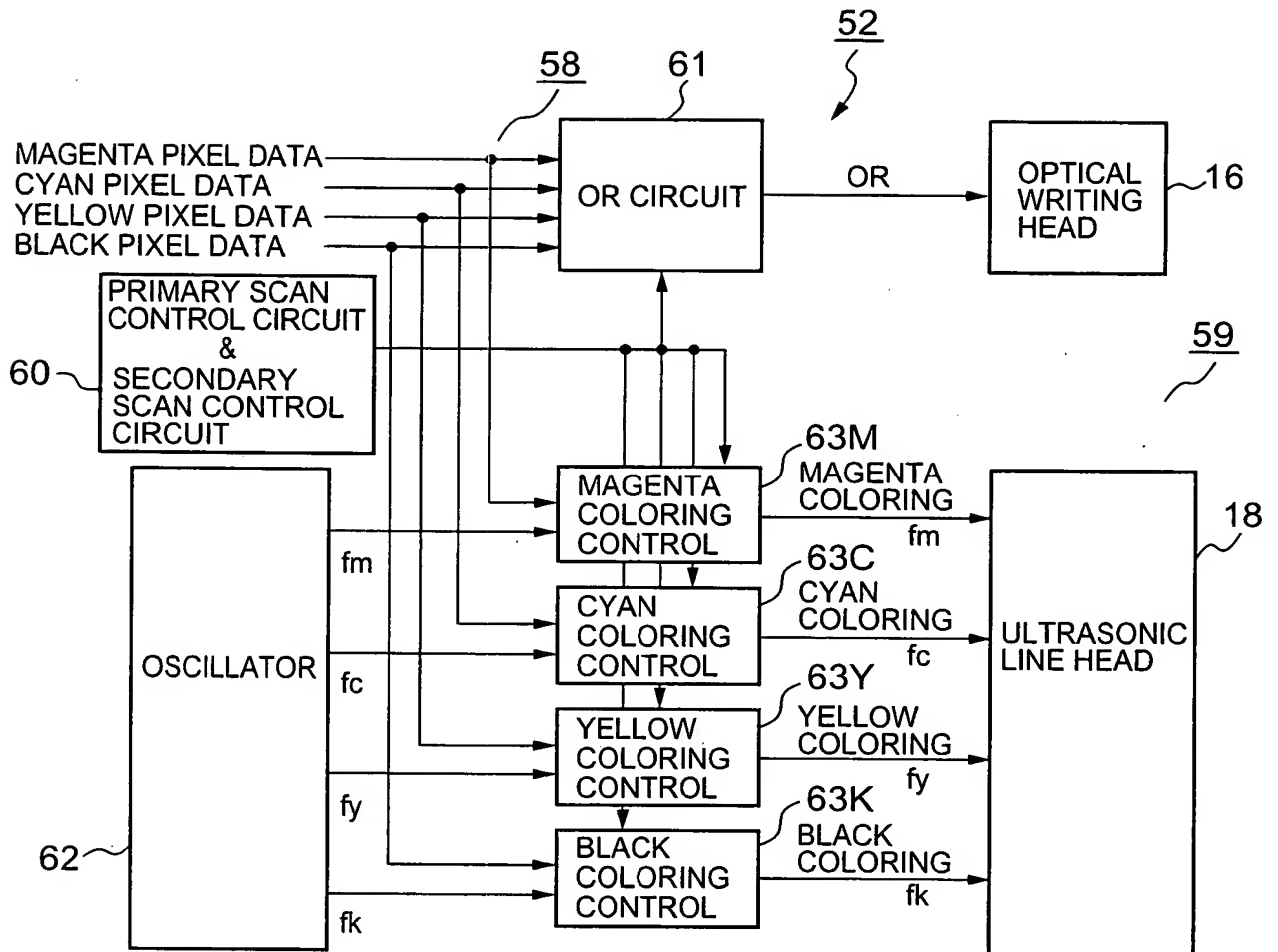


FIG. 6

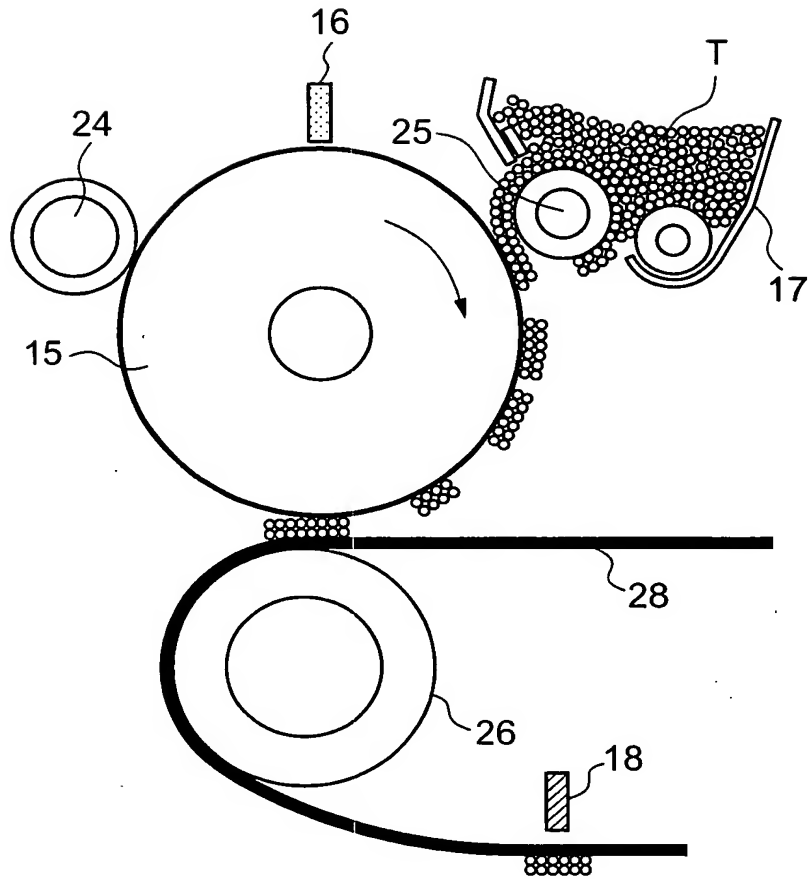


FIG. 7

FIG. 8A

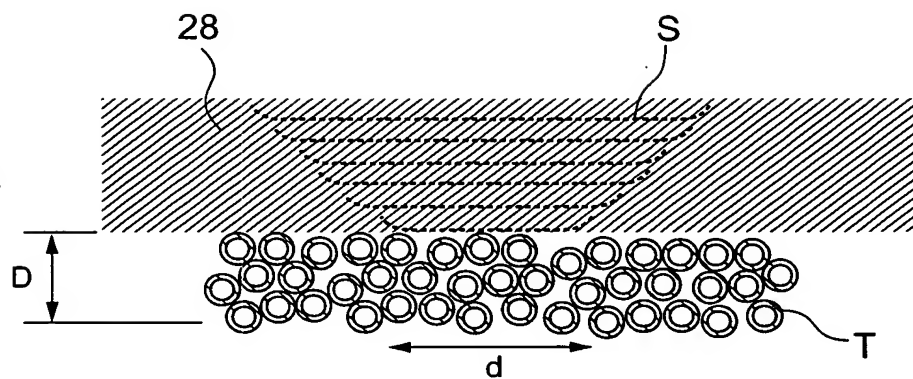


FIG. 8B

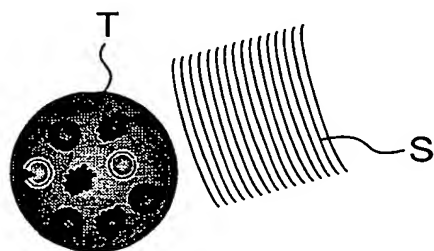
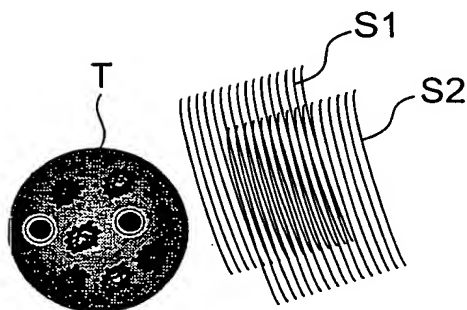


FIG. 8C



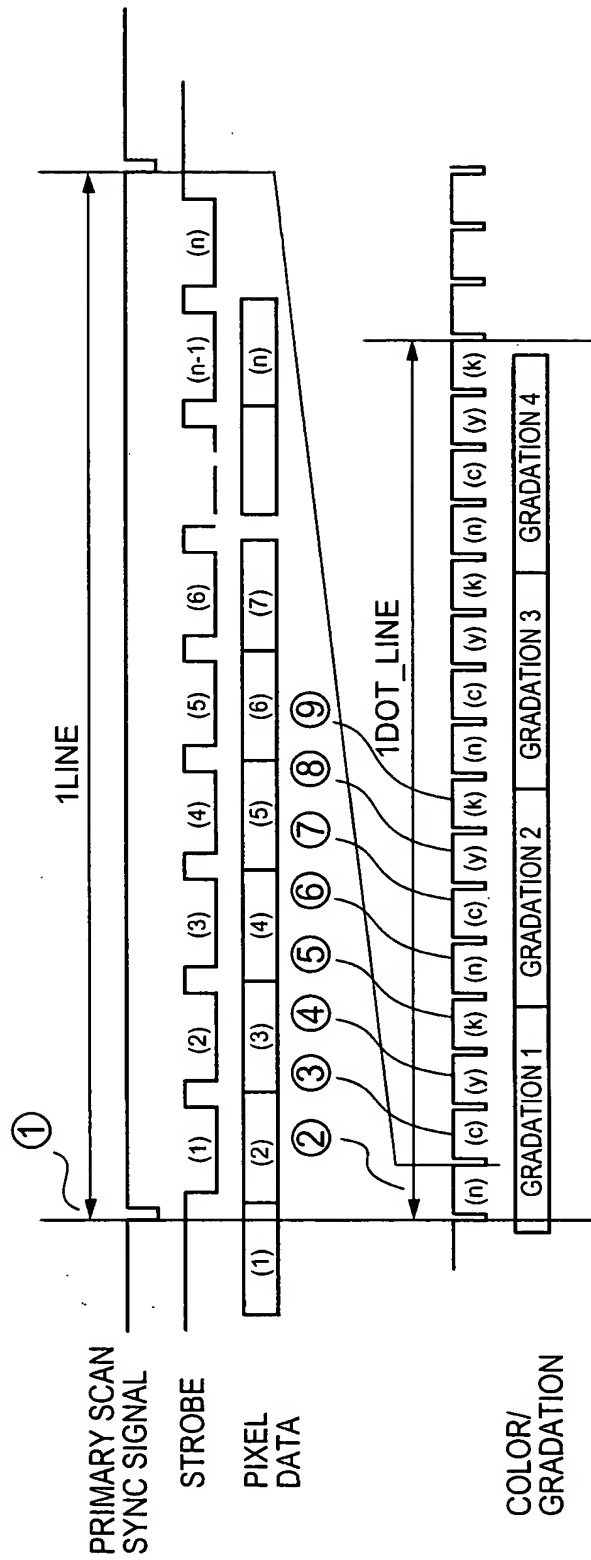


FIG. 9

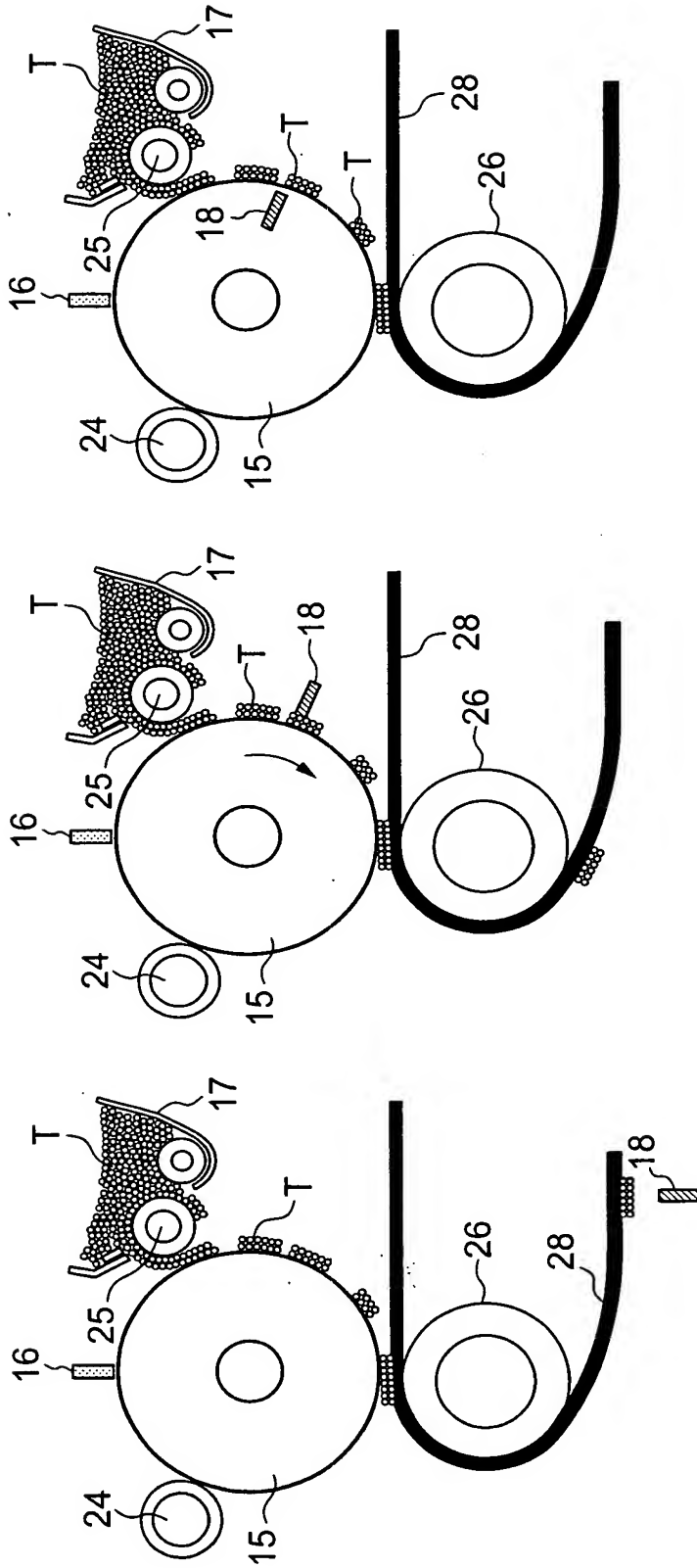


FIG. 10A

FIG. 10B

FIG. 10C

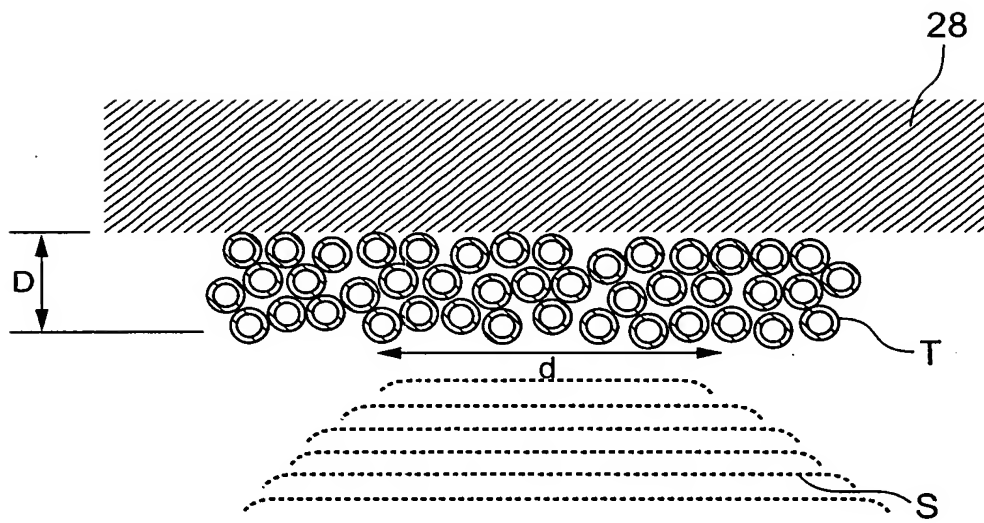


FIG. 11

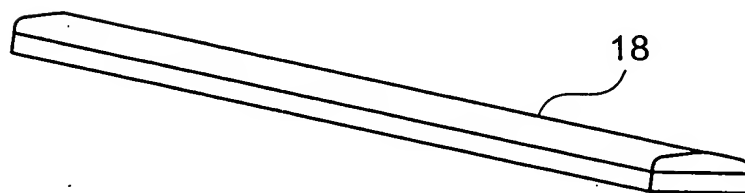


FIG. 12

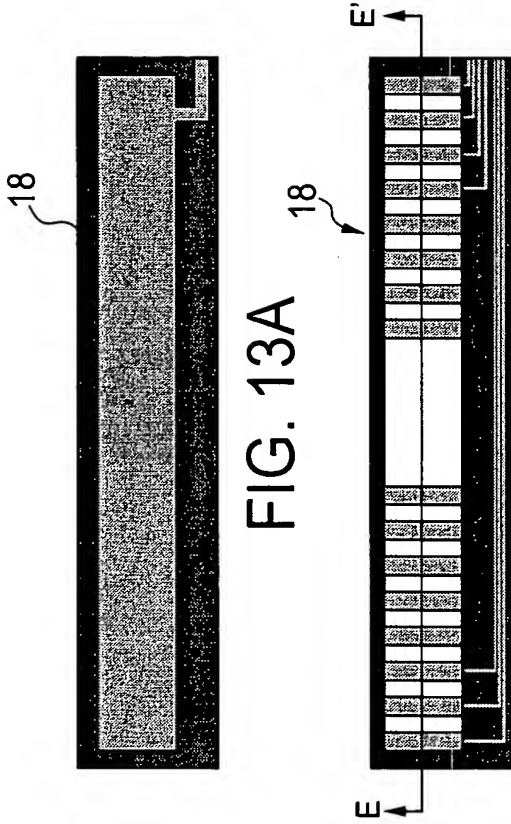


FIG. 13A

FIG. 13B

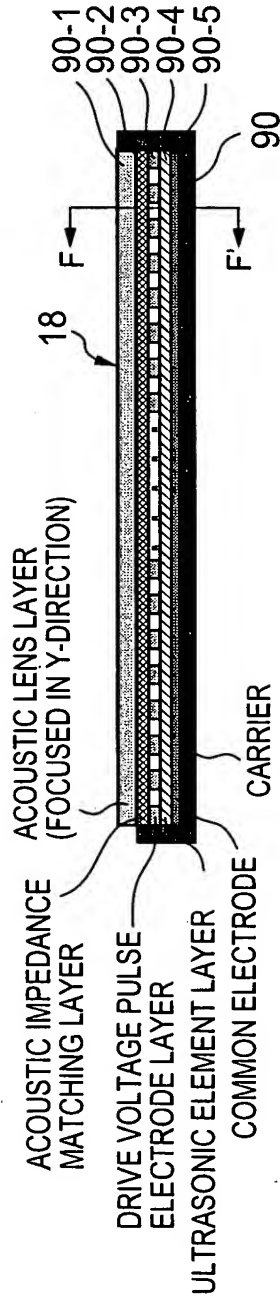


FIG. 13C

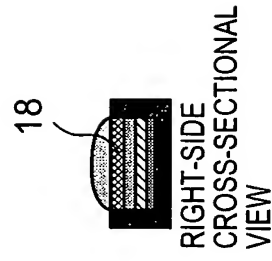


FIG. 13D

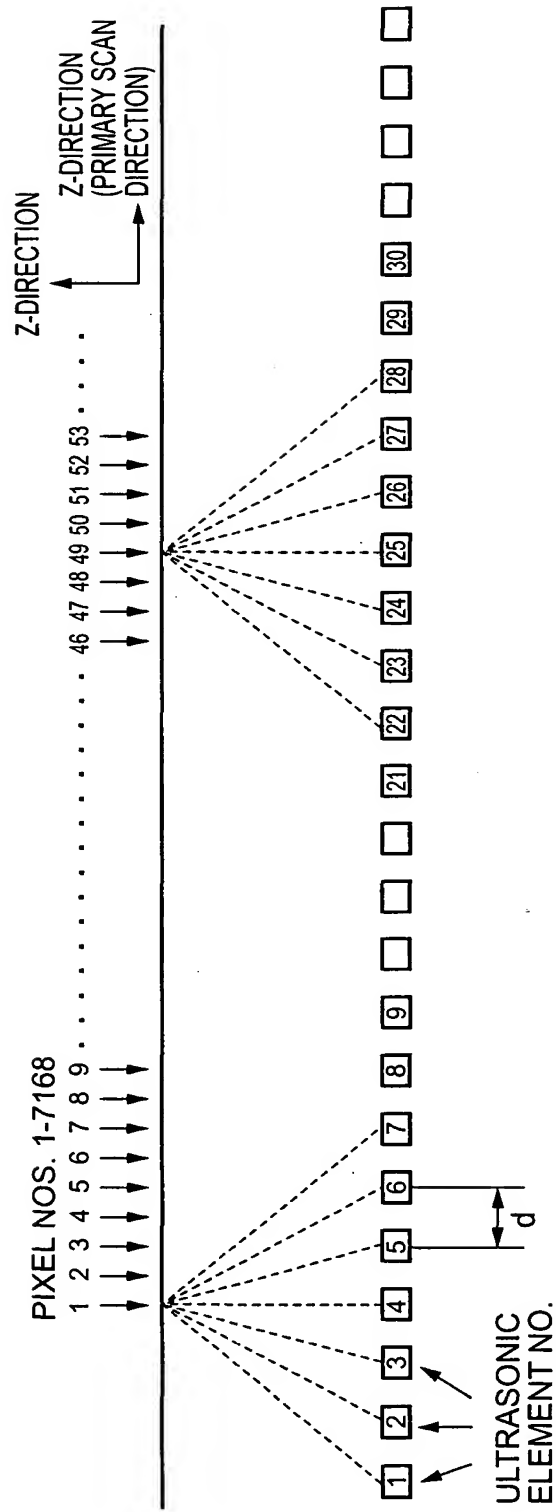


FIG. 14

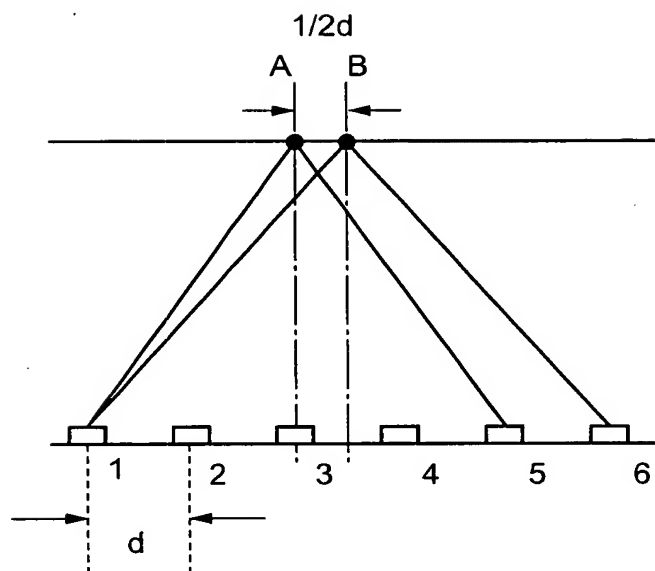


FIG. 15

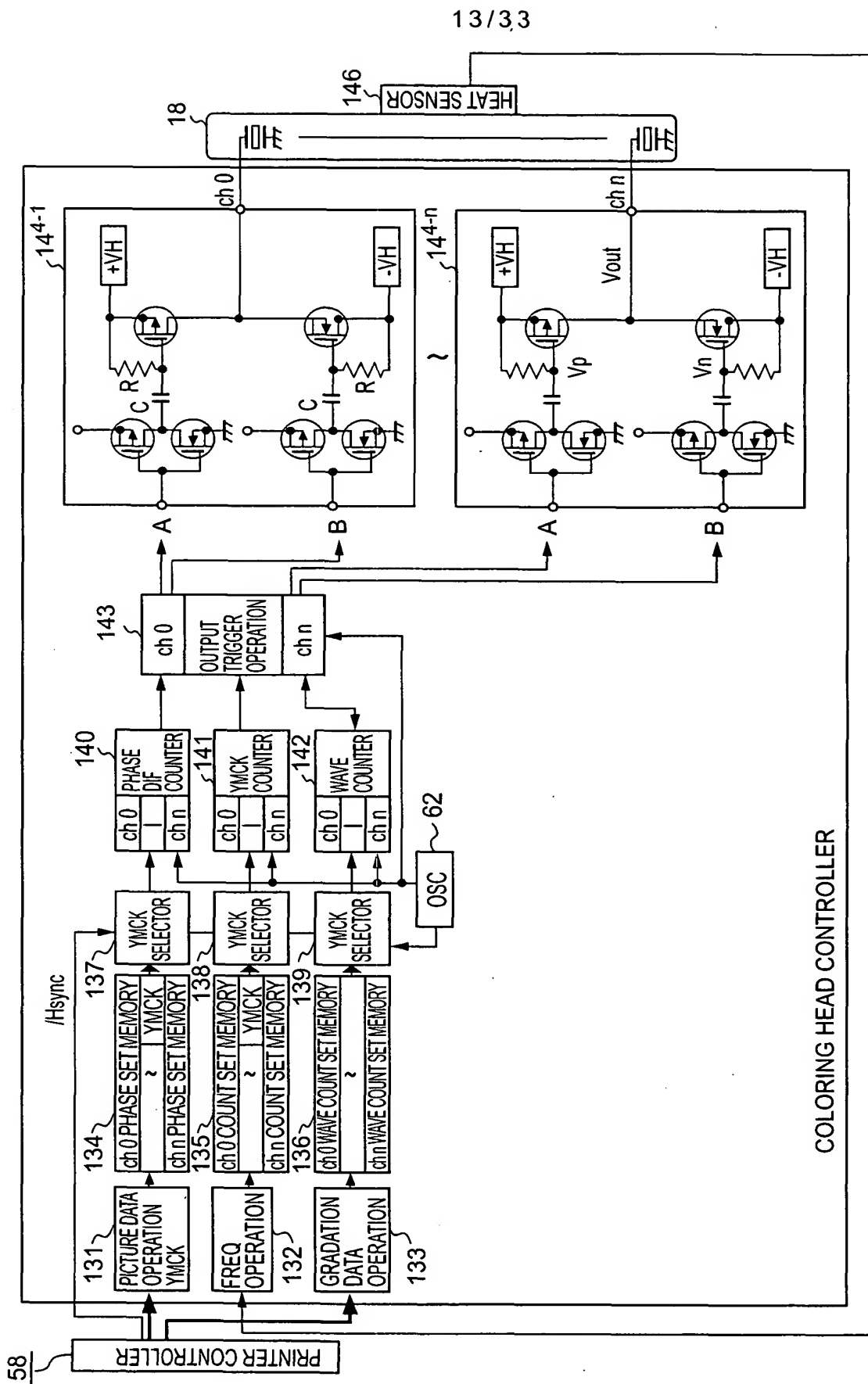


FIG. 16

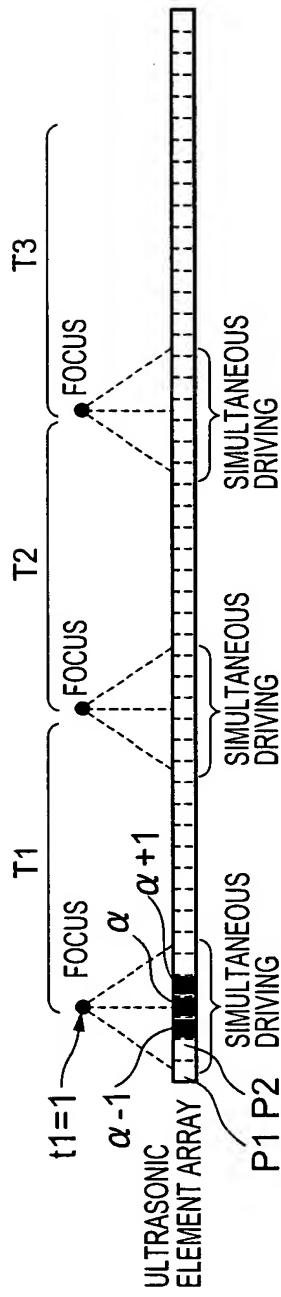


FIG. 17A

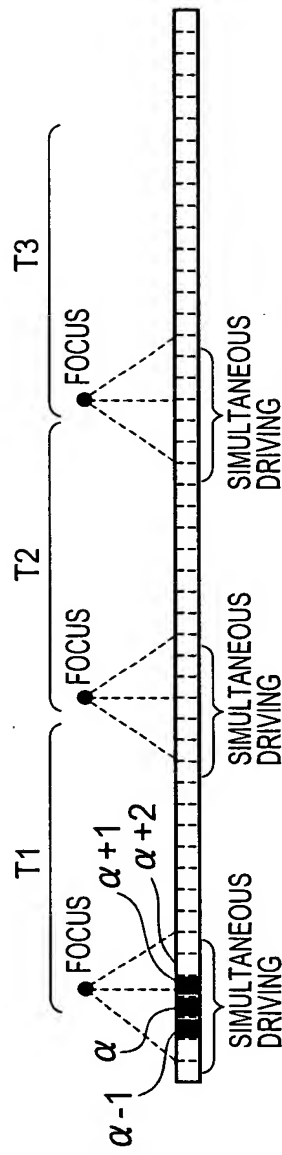


FIG. 17B

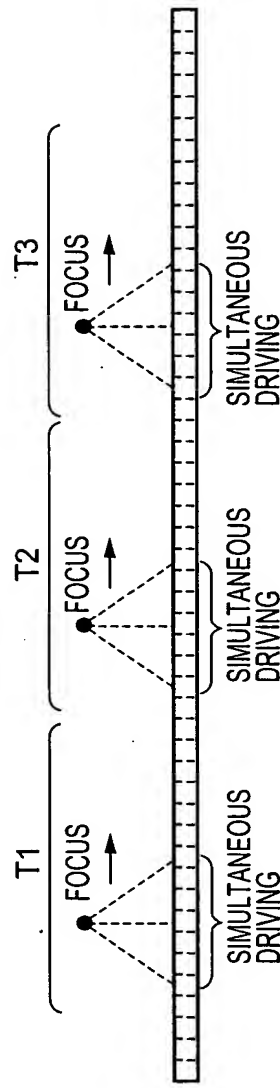


FIG. 17C

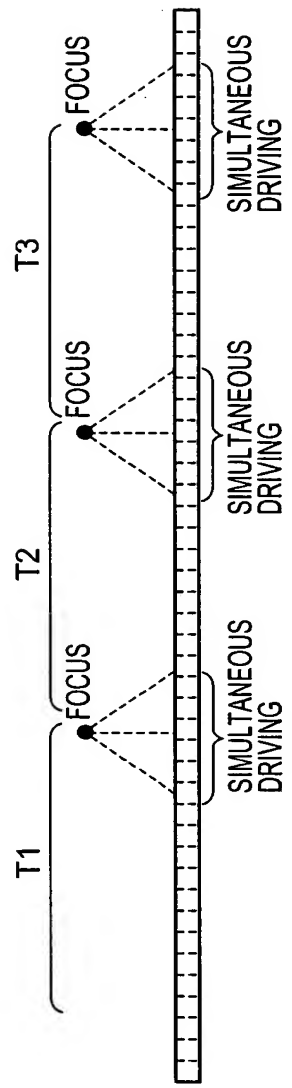


FIG. 17D

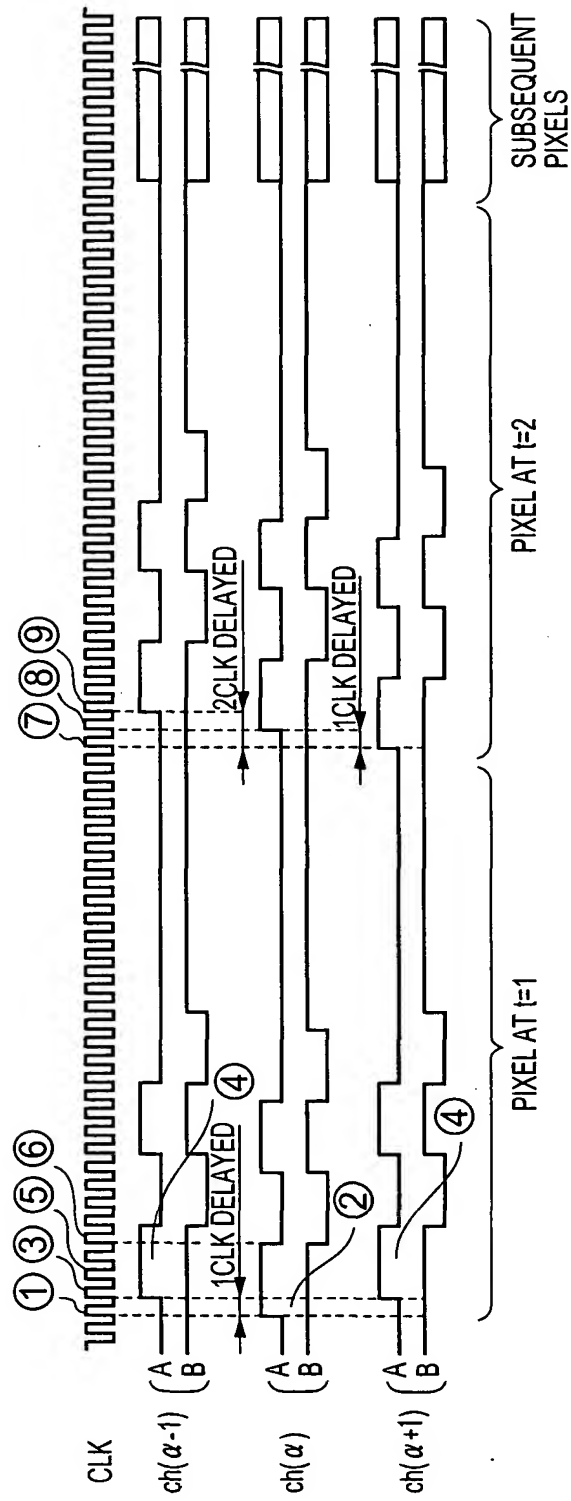


FIG. 18

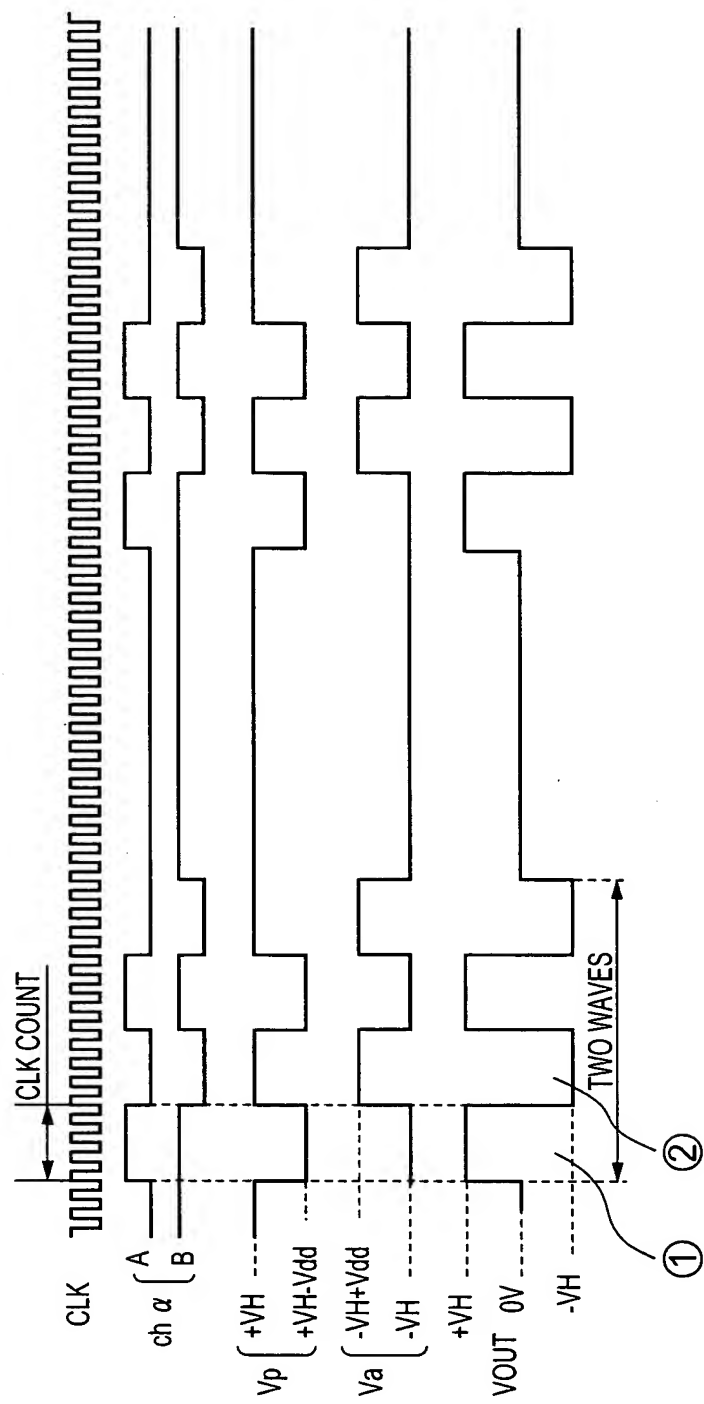


FIG. 19

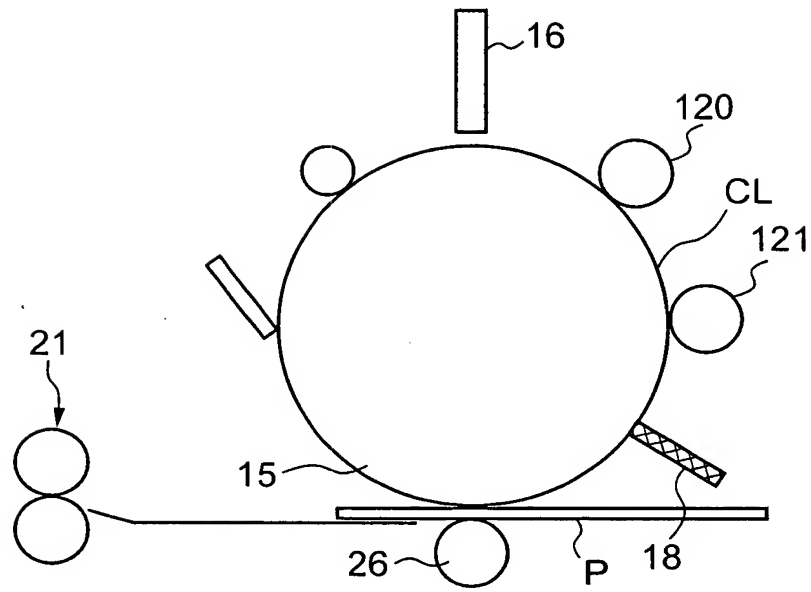


FIG. 20

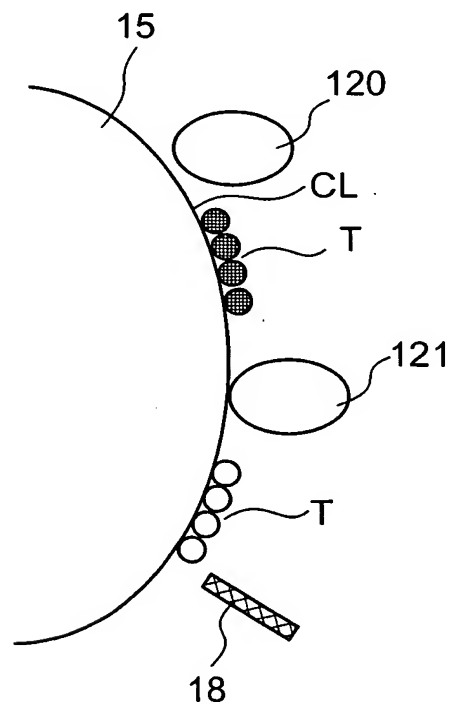


FIG. 21

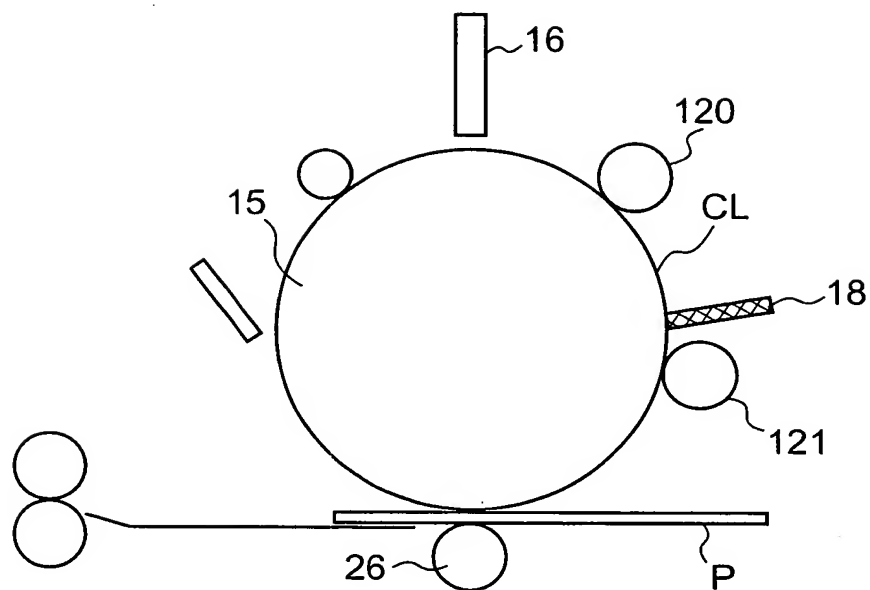


FIG. 22

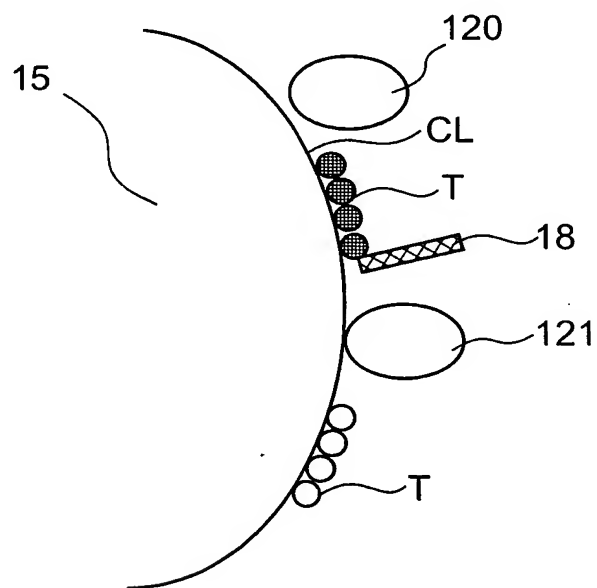


FIG. 23

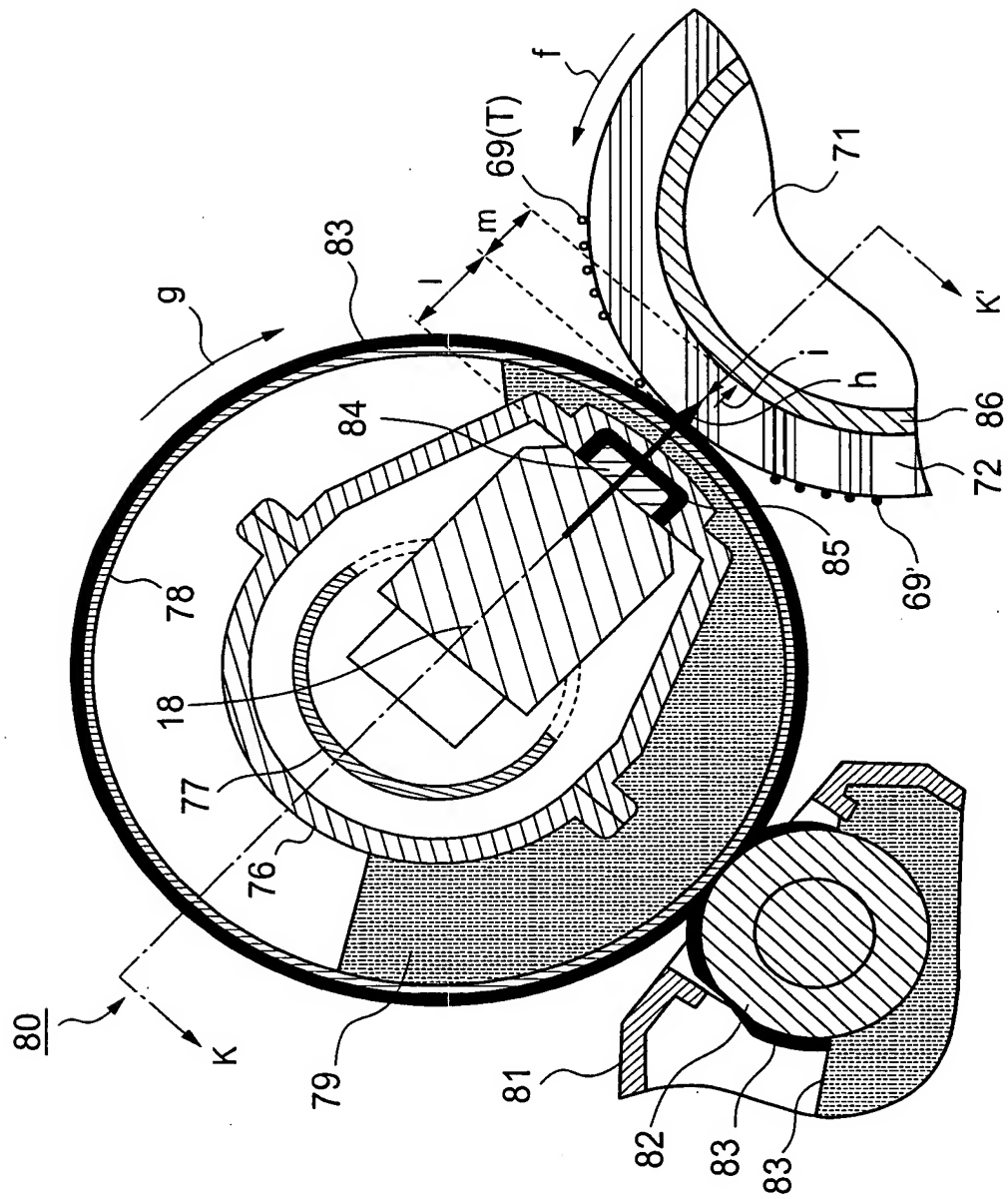


FIG. 25

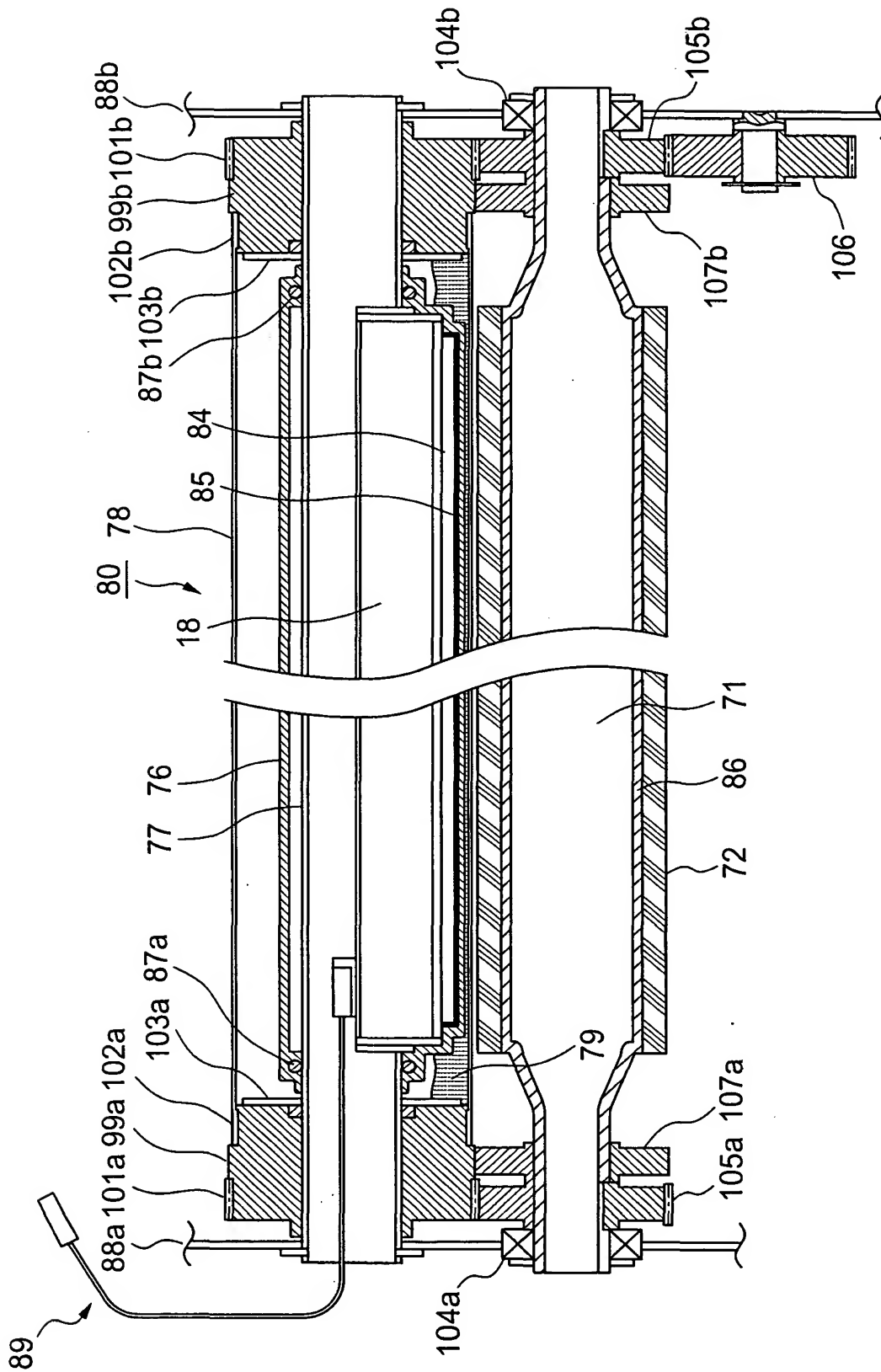


FIG. 26

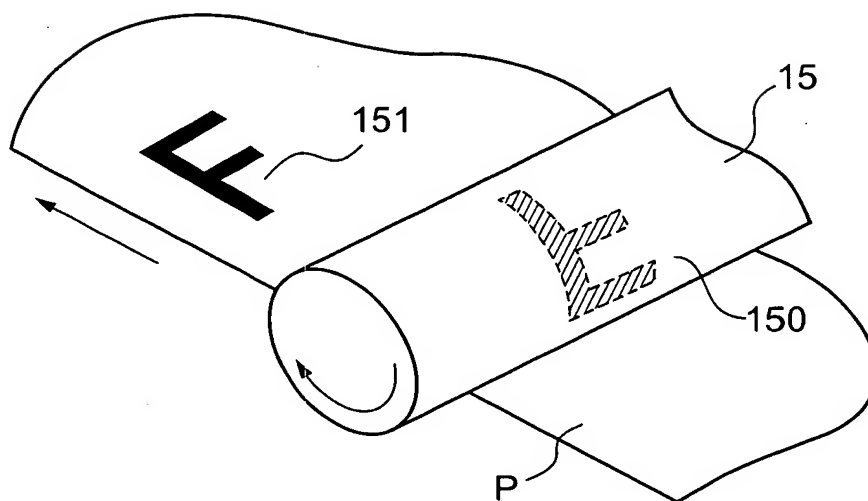


FIG. 27

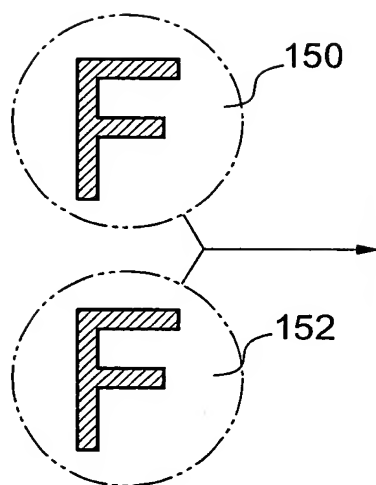


FIG. 28A



FIG. 28B

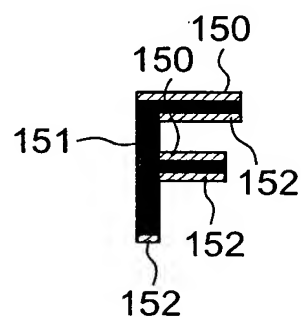


FIG. 28C

FIG. 31A

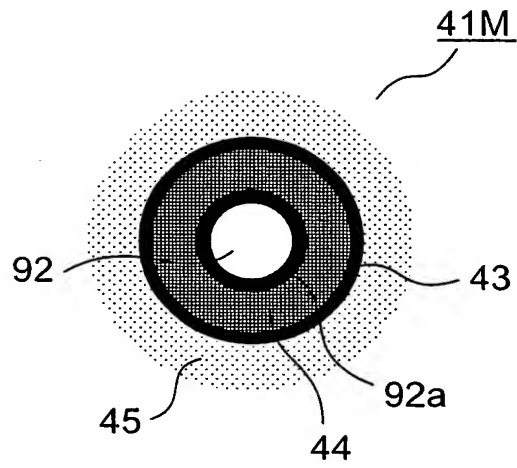
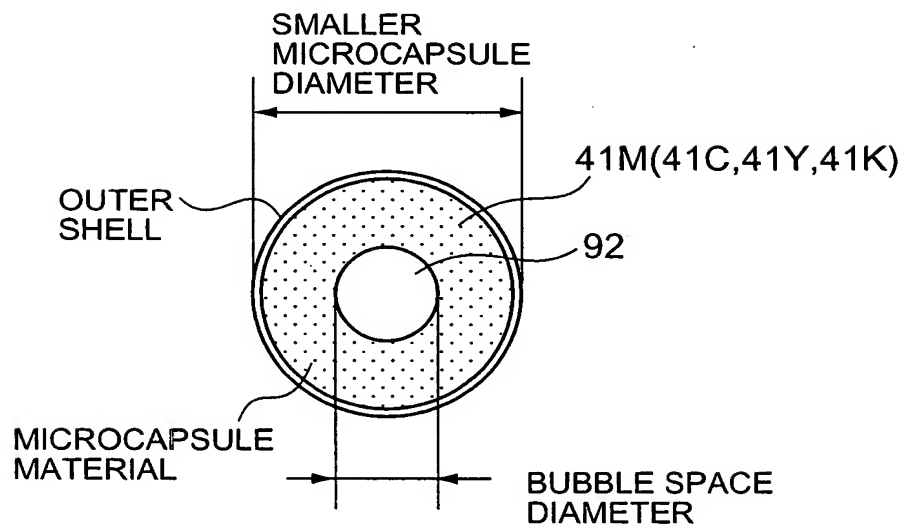


FIG. 31B



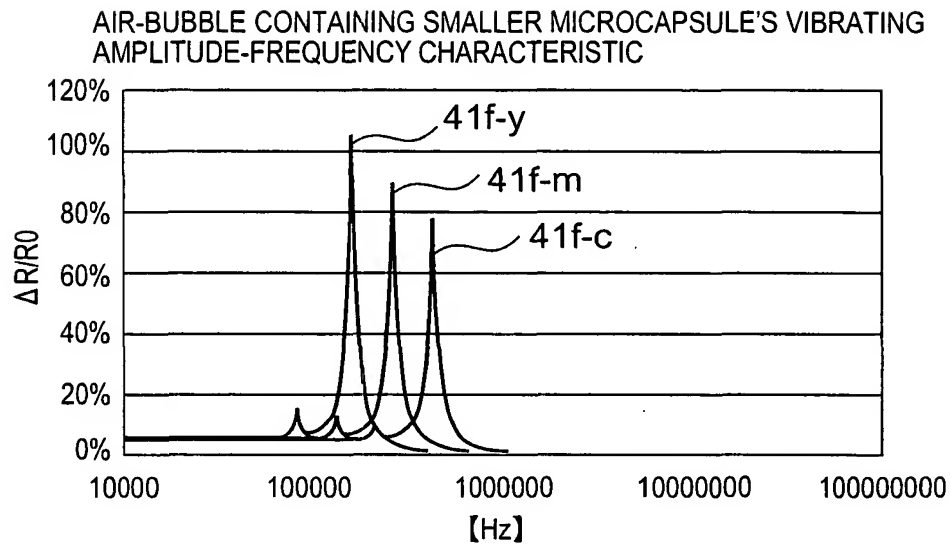


FIG. 32

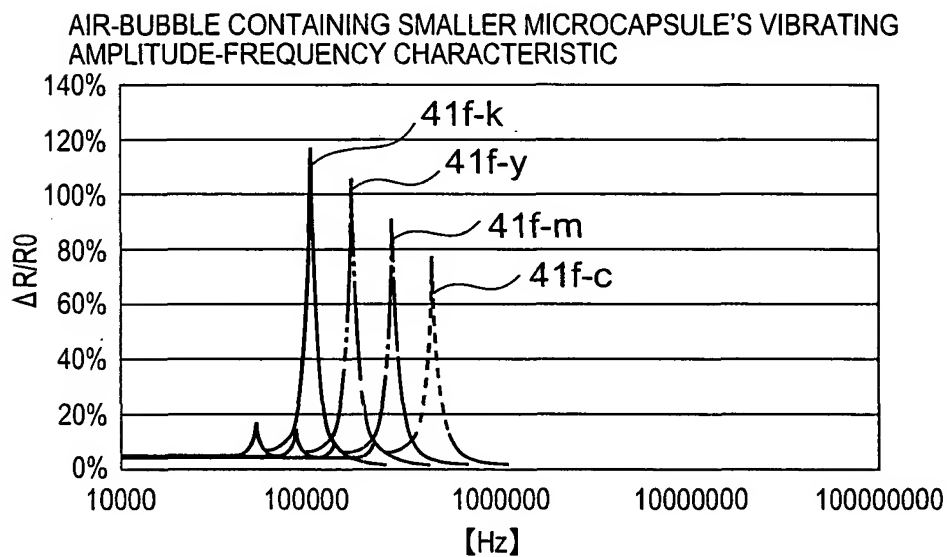


FIG. 33

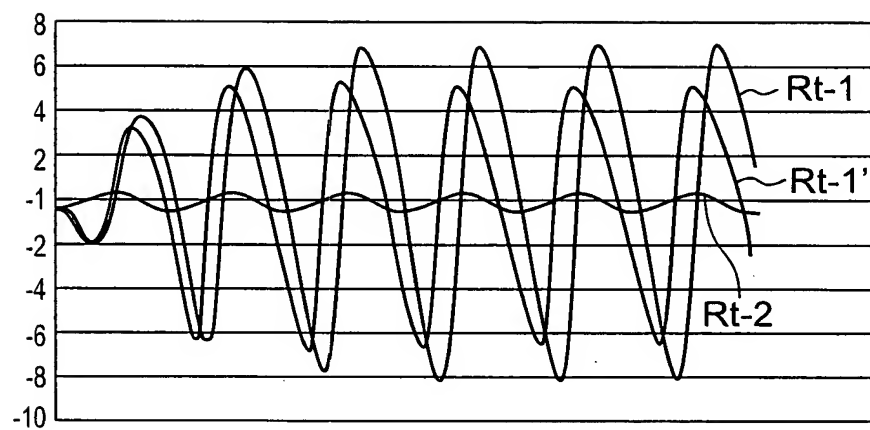


FIG. 34

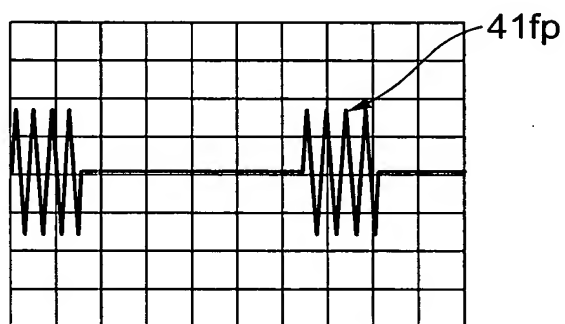


FIG. 35

	MAGENTA CAPSULE	CYAN CAPSULE	YELLOW CAPSULE
CAPSULE RADIUS R_0	$1.0\ \mu\text{m}$	$1.0\ \mu\text{m}$	$1.5\ \mu\text{m}$
SHELL PARAMETER S_p	0.5	2	0.5
MAX AMPLITUDE FREQ f	7.0MHz	11MHz	4.0MHz

FIG. 36

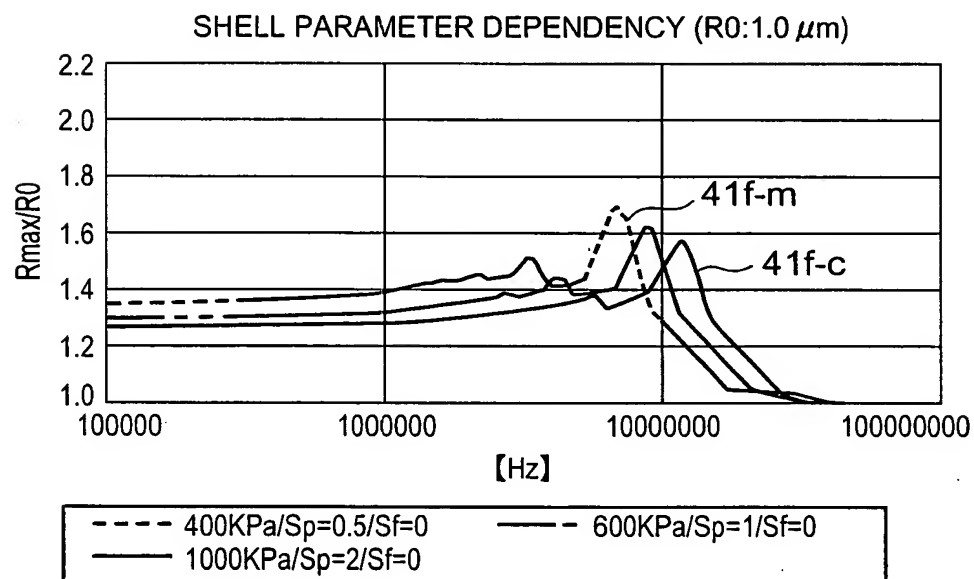


FIG. 37

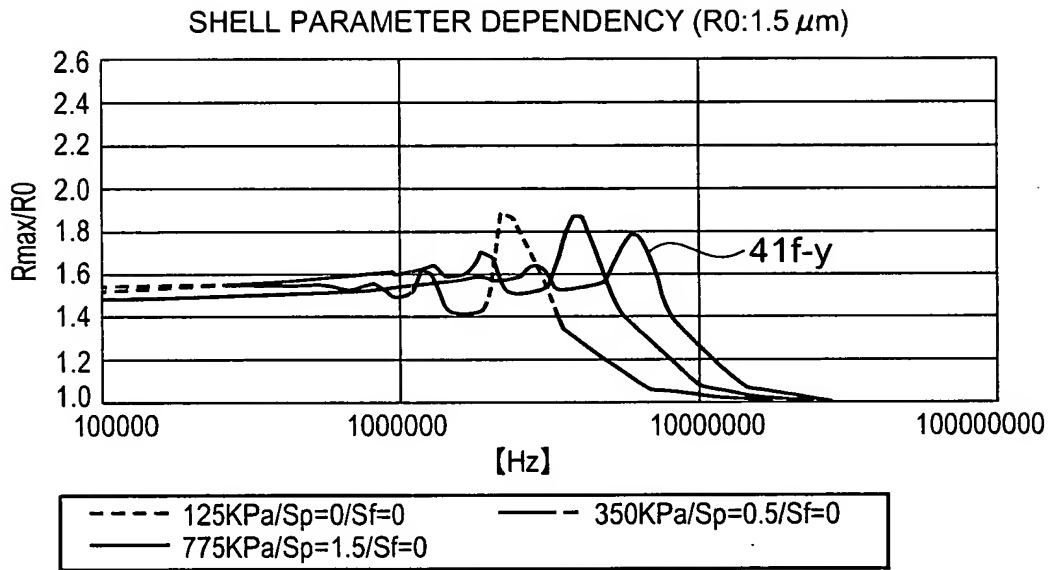


FIG. 38

(R₀,S_p)- FREQUENCY CHARACTERISTIC

	MAGENTA CAPSULE	CYAN CAPSULE	YELLOW CAPSULE	BLACK CAPSULE
CAPSULE RADIUS R ₀	1.0 μm	1.0 μm	1.5 μm	0.5 μm
SHELL PARAMETER S _p	1	0.5	1.5	2.0
MAX AMPLITUDE FREQ f	9.0MHz	18MHz	6.0MHz	30MHz

FIG. 39

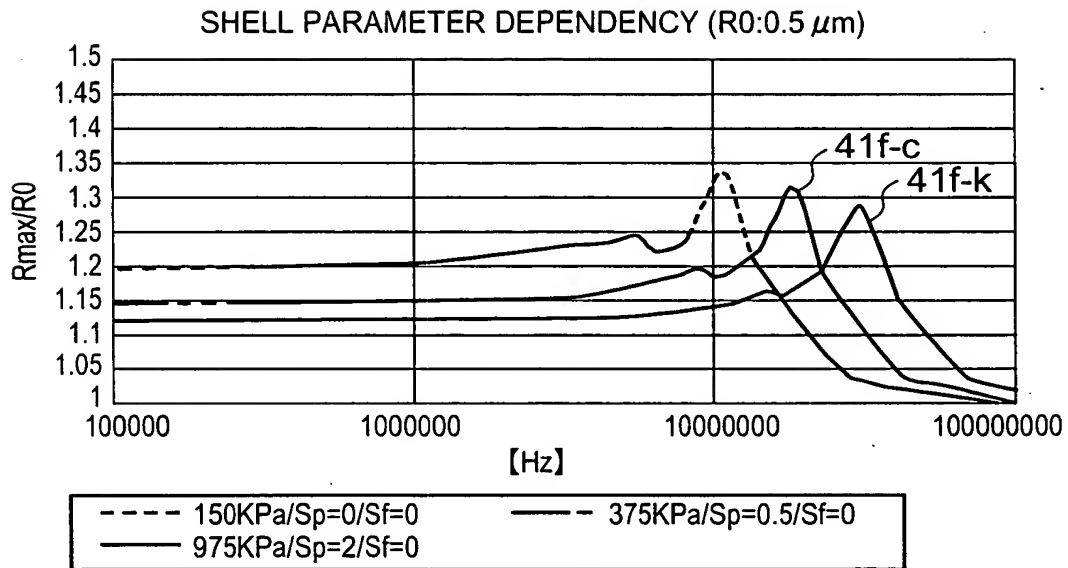


FIG. 40

(Ro,Sp,P)- FREQUENCY CHARACTERISTIC

	YELLOW CAPSULE	MAGENTA CAPSULE	CYAN CAPSULE
CAPSULE RADIUS R_0	$2.0 \mu\text{m}$	$1.5 \mu\text{m}$	$1.0 \mu\text{m}$
SHELL PARAMETER S_p	0	0	0
APPLIED ULTRASONIC PRESSURE P	70kPa	90kPa	130kPa
MAX AMPLITUDE FREQ f	1.6MHz	2.2MHz	3.5MHz

FIG. 41

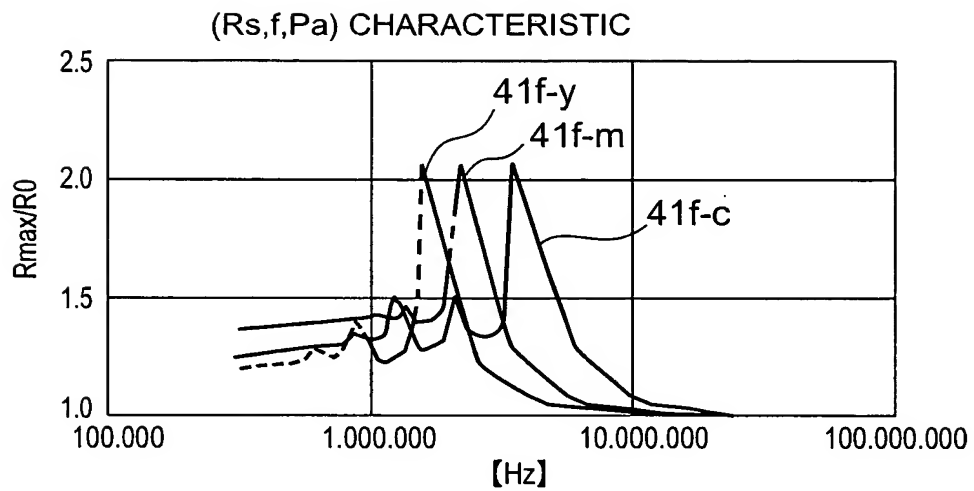


FIG. 42

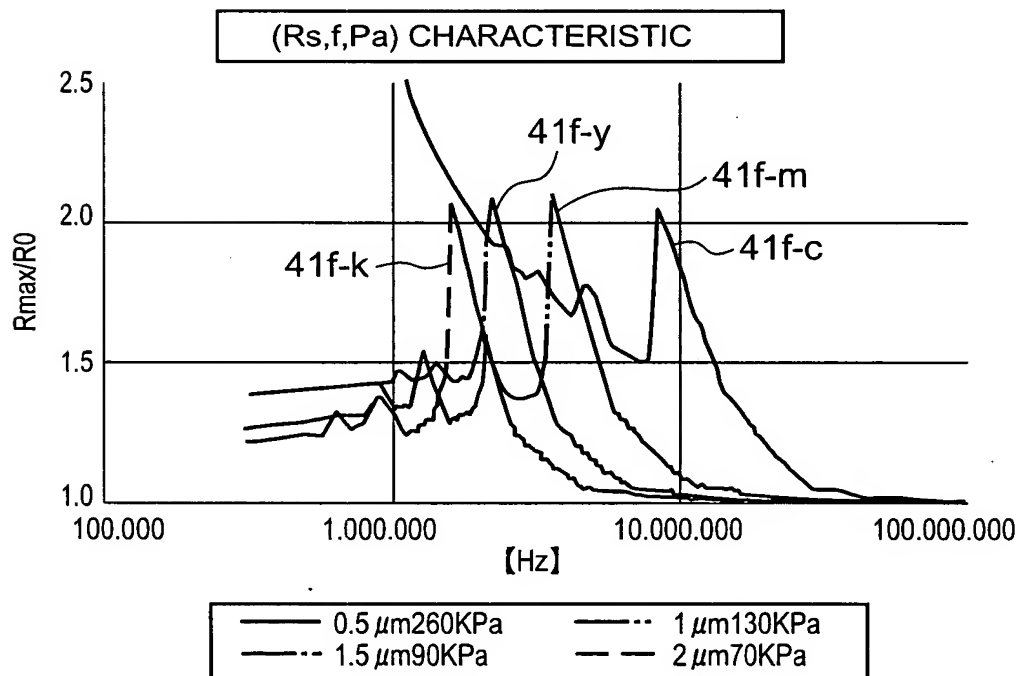


FIG. 43

(Ro,Sp,P)- FREQUENCY CHARACTERISTIC

	YELLOW CAPSULE	MAGENTA CAPSULE	CYAN CAPSULE	BLACK CAPSULE
CAPSULE RADIUS R_o	1.5 μm	1.0 μm	0.5 μm	2.0 μm
SHELL PARAMETER S_p	0	0	0	0
APPLIED ULTRASONIC PRESSURE P	90kPa	130kPa	260kPa	70kPa
MAX AMPLITUDE FREQ f	2.2MHz	3.5MHz	8.3MHz	1.6MHz

FIG. 44

(Ro,Sp,P)- FREQUENCY CHARACTERISTIC

	YELLOW CAPSULE	MAGENTA CAPSULE	CYAN CAPSULE
CAPSULE RADIUS R_o	1.0 μm	0.5 μm	0.5 μm
SHELL PARAMETER S_p	2.0	0.5	0.5
APPLIED ULTRASONIC PRESSURE P	1000kPa	375kPa	975kPa
MAX AMPLITUDE FREQ f	12MHz	18MHz	30MHz

FIG. 45

(Ro,Sp,P)- FREQUENCY CHARACTERISTIC

	YELLOW CAPSULE	MAGENTA CAPSULE	CYAN CAPSULE	BLACK CAPSULE
CAPSULE RADIUS R_o	1.0 μm	0.5 μm	0.5 μm	1.0 μm
SHELL PARAMETER S_p	2.0	0.5	2.0	0.5
APPLIED ULTRASONIC PRESSURE P	1000kPa	375kPa	975kPa	400kPa
MAX AMPLITUDE FREQ f	12MHz	18MHz	30MHz	7MHz

FIG. 46

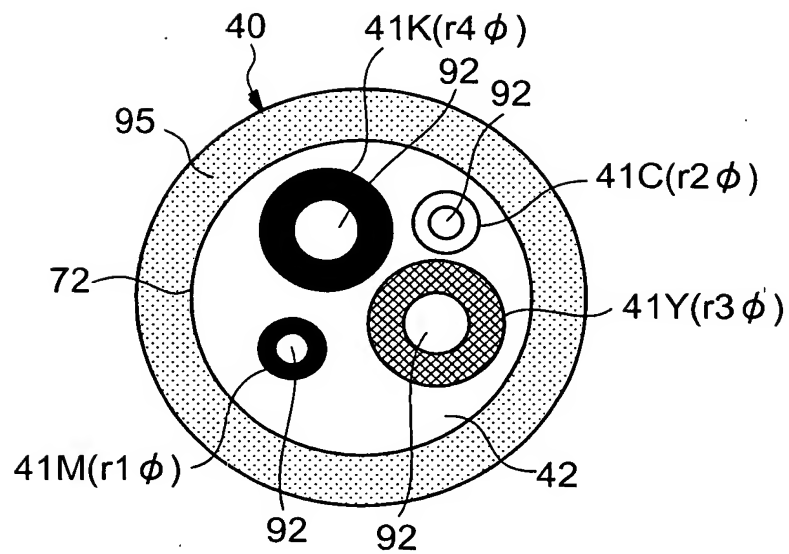


FIG. 47A

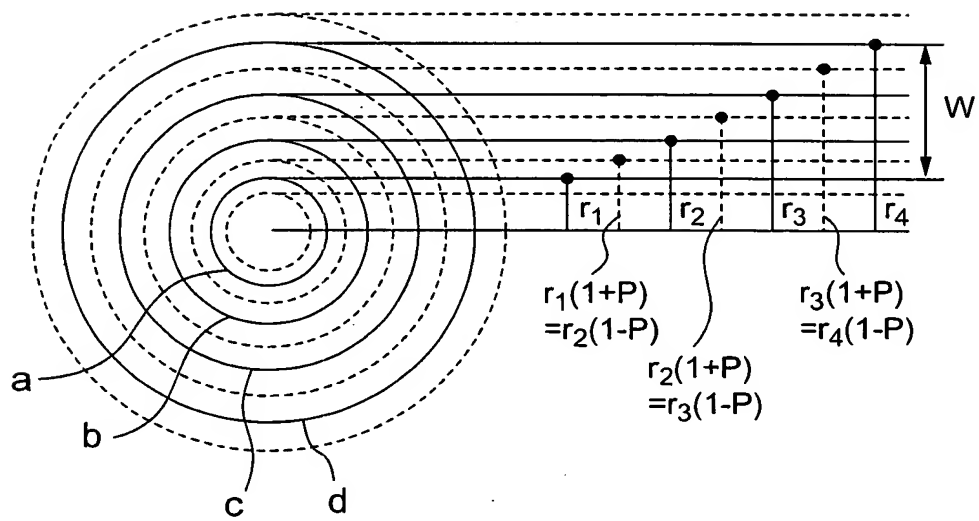


FIG. 47B

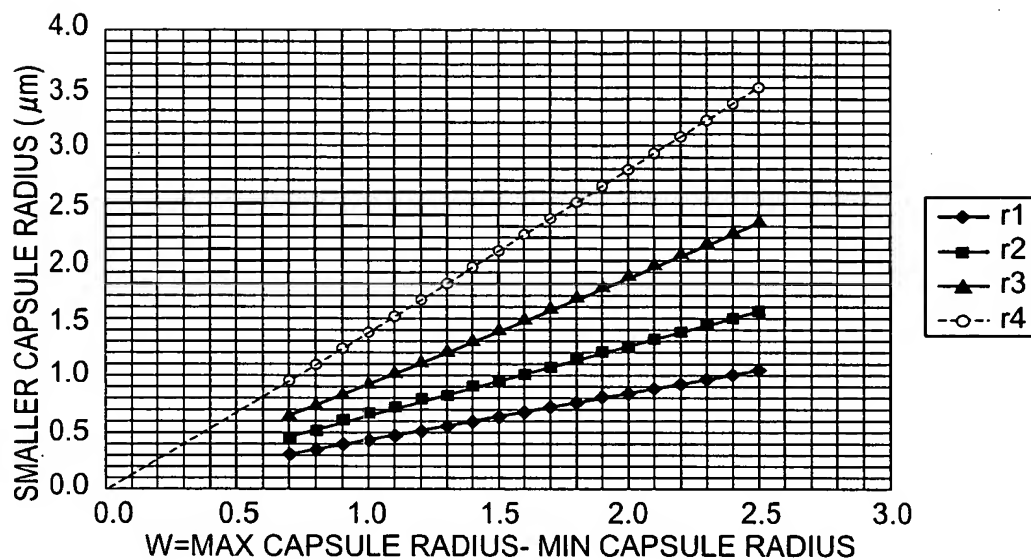
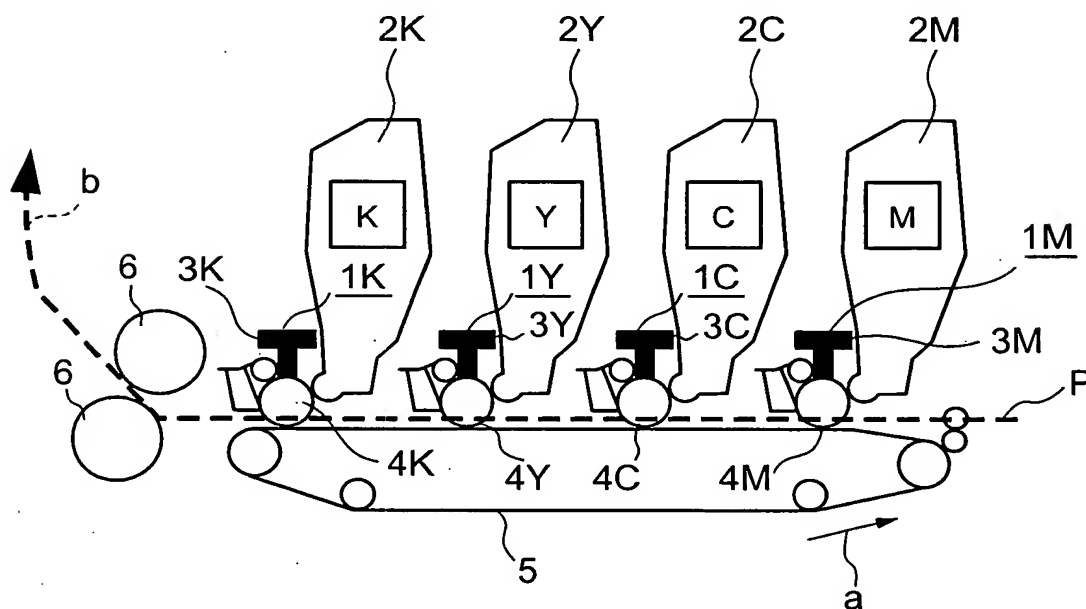


FIG. 48

FIG. 49
(PRIOR ART)